$\frac{2xyz}{2yz} = \frac{6^3}{2yz}$ for x

$x = \frac{3}{yz}$

$2 + x + y + z = 6$ for x

$x = 6 - 2 - y - z$

$x = 4 - y - z$

$\frac{2xyz}{2xz} = \frac{6}{2xz}$ for y

$y = \frac{3}{xz}$

$2 + x + y + z = 6$ for y

$y = 6 - 2 - x - z$

$y = 4 - x - z$

$\frac{2xyz}{2xy} = \frac{6}{2xy}$ for z

$z = \frac{3}{xy}$

$2 + x + y + z = 6$ for z

$z = 6 - 2 - x - y$

$z = 4 - x - y$

$2x+y+z=6$ for x

$\frac{2x}{2} = \frac{6}{2} - \frac{y}{2} - \frac{z}{2}$

$x = 3 - \frac{y}{2} - \frac{z}{2}$

$2xy+z=6$ for x

$\frac{2xy}{2y} = \frac{6}{2y} - \frac{z}{2y}$

$x = \frac{3}{y} - \frac{z}{2y}$

$2x+y+z=6$ for y

$y = 6-2x-z$

$2xy+z=6$ for y

$\frac{2xy}{2x} = \frac{6}{2x} - \frac{z}{2x}$

$y = \frac{3}{x} - \frac{z}{2x}$

$2x+y+z=6$ for z

$z = 6-2x-y$

$2xy+z=6$ for z

$z = 6-2xy$

$2x + yz = 6$ for x

$$\frac{2x}{2} = \frac{6}{2} - \frac{yz}{2}$$

$$x = 3 - \frac{yz}{2}$$

$2x + yz = 6$ for y

$$\frac{yz}{z} = \frac{6}{z} - \frac{2x}{z}$$

$$y = \frac{6}{z} - \frac{2x}{z}$$

$2x + yz = 6$ for z

$$\frac{yz}{y} = \frac{6}{y} - \frac{2x}{y}$$

$$z = \frac{6}{y} - \frac{2x}{y}$$

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11) $P = a + b + c$ for b

$P - a - c = b$

12) $c + d = e$ for d

$d = e - c$

15) $\frac{A}{h} = \frac{bh}{h}$ for b

$\frac{A}{h} = b$

21) $3x + y = 1$ for y

$y = 1 - 3x$

24) $7x + 3y = 1$ for y

$\frac{3y}{3} = \frac{1}{3} - \frac{7x}{3}$

$y = \frac{1}{3} - \frac{7x}{3}$

27) $4x - 3y = 12$ for y

$$\frac{-3y}{-3} = \frac{12}{-3} - \frac{4x}{-3}$$

$$y = -4 + \frac{4x}{3}$$

30) $ax + by = c$ for x

$$\frac{ax}{a} = \frac{c}{a} - \frac{by}{a}$$

$$x = \frac{c}{a} - \frac{by}{a}$$

33) $a = 2(b + c)$ for b

$$a = 2b + 2c$$

$$\frac{a}{2} - \frac{2c}{2} = \frac{2b}{2}$$

$$\frac{a}{2} - c = b$$

36) $Q = \frac{a - b}{2}$ for a

$$\frac{2Q}{2} = \frac{a}{2} - \frac{b}{2}$$

$$2Q = a - b$$

$$2Q + b = a$$